

EU CERTIFICATE OF CONFORMITY

This is to certify that Lloyd's Register Verification, a Notified Body under the terms of:

The Pressure Equipment Directive, 2014/68/EU;

The Pressure Equipment (Safety) Regulation 2016, Statutory Instrument 2016 No. 1105, did (in accordance with Module F of the Directive) undertake an EU Product Verification on the stated pressure equipment to ensure its conformity within the requirements of the Directive which apply to it. The equipment identified below was shown to comply.

This Certificate is issued to:

APPLICANT:

**Faber Industrie S.p.A.
Cividale del Friuli
Udine
Italy**

PRODUCT DESCRIPTION:

**Seamless Steel Gas Cylinder for breathing
apparatus, drawing EN-203-372-890 Rev. 1**

APPLICABLE STANDARD:

EN 1964-1:1999

Quantity	Capacity (L)	Batch and Serial No	Manufacture date
198	15	18/1432/001÷198	09/2018

The seamless steel gas cylinders named above have been manufactured in accordance with EC Type Examination Certificate No CE-1370-PED-B-FAB 002-12-ITA issued by Bureau Veritas, Notified Body No 1370, on 27th March 2012.

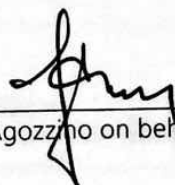
As verified in the Manufacturer Test Certificate No: 18/1432 dated 18th September 2018 and manufacturing/production record endorsed by our Surveyors, Ref. VR PRJ11070504/101, the final inspection and proof test in accordance with the requirements of Section 3.2 of the essential safety requirements was carried out on the above equipment.

Certificate No.: 0038/PED/PRJ11070504/101

Date of Issue: 18th September 2018

Certificate Issue: 01

LRV Notified Body number 0038


G. Agozzino on behalf of Lloyd's Register Verification

Lloyd's Register Verification Limited (Reg. no 4929226) is a limited Company registered in England and Wales. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK. A subsidiary of Lloyd's Registered Group Limited.

Lloyd's Register Group Limited, its affiliated and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the "Lloyd's Register". Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

The Company Faber Industrie s.p.a. – Via dell'Industria, 64 - XI Zona Industriale Cividale del Friuli (UD) – ITALY,
La società Faber Industrie s.p.a. – con sede in Via dell'Industria, 64 - XI Zona Industriale Cividale del Friuli (UD) – ITALIA,

DECLARES
DICHIARA

that the manufactured pressure equipment:
che l'attrezzatura a pressione costruita:

Definition: **CYLINDER FOR BREATHING APPARATUS**
Definizione: **BOMBOLE PER APPARECCHIO RESPIRATORE**

Water capacity V **15** litre/ litri
Capacità

Operating fluid: **1002 AIR**
Fluido contenuto:

Manufacturer N° / N° di fabbrica

from/ dal **18/1432/101** to/ al **18/1432/200**

Drawing N°: **EN-203-372-890 REV.1**
N° disegno:

Min. e max. allowable temperatures: **-50 + +65 °C**
Temperatura min. e max. ammissibili:

Max. allowable pressure: **232** bar
Pressione max. ammissibile:

No. of cylinders / numero di bombole

94

MEETS THE REQUIREMENTS OF DIRECTIVE PED 2014/68/EU
E' CONFORME AI REQUISITI DELLA DIRETTIVA PED 2014/68/EU

- Conformity assessment procedures used: Module **B+F** (Category **IV**)
(Module B in compliance with Annex II and III of Directive 97/23/CE
Module F in compliance with Annex II and III of Directive 2014/68/EU)
Procedura/e di valutazione di conformità utilizzata: Modulo **B+F** (Categoria **IV**)
(Modulo B in accordo agli allegati II e III della Direttiva 97/23/CE
Modulo F in accordo agli allegati II e III della Direttiva 2014/68/EU)
- Notified Body charged of the conformity assessment: N° **0038 LLOYD'S REGISTER**
Organismo Notificato incaricato della valutazione di conformità: N°
- Registration number of "CE Type Examination Certificate": **CE-1370-PED-B-FAB002-12-ITA**
Estremi dell' "Attestato dell'esame CE del tipo":
- Not harmonized standards applied to designing and manufacture: **EN 1964-1:1999**
Norme non armonizzate applicate alla progettazione ed alla costruzione:
- Harmonized standards applied to designing and manufacture: **None**
Norme armonizzate applicate alla progettazione ed alla costruzione: **Nessuna**
- Others European Directives applied to the equipment: **None**
Eventuali altre Direttive europee applicate all'attrezzatura: **Nessuna**
- Registration number of Conformity Certificate issued by the Notified Body charged of assessment procedure
"Module F": **0038/PED/PRJ11070504/101**
Estremi dell'Attestato di Conformità rilasciato dall'Organismo Notificato incaricato della procedura di valutazione "Modulo F":

It is declared that the equipment has been hydraulic tested with favourable result at the pressure of: (PT) **372** bar, it is marked
CE **0038** and with identification data and the working parameters upside reported.

Dichiara inoltre che l'attrezzatura è stata sottoposta con esito favorevole a prova di pressione idraulica di: (PT) **372** bar, che è stata
marcata CE **0038** e con i dati identificativi e le caratteristiche di esercizio sopra riportati.

The assembly must be subjected to a global conformity assessment procedure described in the directive PED 2014/68/EU.
L'insieme deve essere sottoposto ad una procedura globale di valutazione di conformità così come previsto dalla direttiva PED 2014/68/EU.

Cividale del Friuli 18/09/2018

140141 

Faber Industrie s.p.a.
Faber
INDUSTRIE S.p.A.
Cividale del Friuli

Manufacturer: **FABER INDUSTRIE SPA - CIVIDALE DEL FRIULI - UDINE- ITALY**

Inspection: **LLOYD'S REGISTER**

Specification: **EN 1964-1:1999 (PED)**

Customer: **Aerotecnica Coltri S.p.A.**

Owner stamping: **COLTRI SUB**

Manufacturer serial No. :

From **18/1432/101** to **18/1432/200**

Gas: **1002 AIR**

Total cylinders: **94**

Type of cylinder: **Seamless steel gas cylinders**

Material: **34CRMO4**

Working pressure at 15° C: **232 bar**

Working temperature: **-50° ÷ +65° C**

Nominal data

Drawing no.	Test Pressure (bar)	Minimum Thickness		Nominal Diameter (mm)	Nominal Length without valve (mm)	Nominal Water Capacity (l)	Nominal Weight (Kg)
		wall (mm)	base (mm)				
EN-203-372-890 REV.1	372	5.3	5.3	203	620	15	18.2

We hereby certify that the cylinders of the batch no. **18/1432** comply with the following requirements

Manufacturing process: cylinders manufactured from **plate**

Neck thread : **M25X2 EN 144-1 2000**

Identification marks stamped on cylinders shoulder according to drawing: **PPED004 2**

Minimum cylindrical shell thickness:

The wall thickness of all cylinders has been measured and found to be not less than : **5.3 mm**

Hardness range:

All cylinders have been controlled within the following hardness values: **Min 298 HB, Max 354 HB**

Heat treatment:

All cylinders have been heat treated at the following temperatures:

Liquid quench: **900 °C ± 20 °C**

Temper at: **570 °C ± 30 °C**

Chemical analysis:

Material: **34CRMO4**

The cylinders of the batch no. **18/1432** have been manufactured from the following cast(s) of steel:

Cast Numb.	Code (*)	C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Mo (%)	S+P (%)
579836	DTU	0.34	0.25	0.81	0.012	0.004	1.03	0.22	0.016

(*)marked on outer bottom surface

In case of use with compressed air and its mixture, synthetic air may be used and special precautions are required to avoid condensation of moisture in the cylinder.

Date: 18/09/2018	For and on behalf of the manufacturer: Faber INDUSTRIE S.p.A. Cividal del Friuli	Lloyd's Register Verification Limited A member of the Lloyd's Register Group Witnessed ☒ Monitored ☐ Reviewed ☒ Andrea Ghersini Venice Office
-------------------------	---	--

18/09/2018

MEASUREMENTS OF SAMPLE CYLINDERS:

Cylinder Serial no.	Water Capacity (L)	Empty Weight (Kg)	Minimum measured thickness	
			of the wall (mm)	of the base (mm)
18/1432/199	15	17.80	5.5	5.7
18/1432/200	15	17.60	5.5	5.7

MECHANICAL TESTS CARRIED OUT ON SAMPLE CYLINDERS:

Cylinder Serial no.	Code (*)	Test piec dimension (mm)	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact test -50 °C			Bend test 180° without cracking
						Direction	Individual (J/cm²)	Mean (J/cm²)	
18/1432/199	DTU	10.1 x 5.7	966	1081	14.9	TRASV	37 37 39	38	SATISF.
Minimum values specified			890	990	14		28	35	

BURST TESTS CARRIED OUT ON SAMPLE CYLINDERS:

Cylinder Serial no.	Code (*)	Hydraulic burst test bar	Description of the fracture
18/1432/200	DTU	643	LONGITUDINAL
Minimum values specified		596	

For and on behalf of the manufacturer:

Faber
INDUSTRIE S.p.A.
Cividal del Friuli

For and on behalf of A.I.A.

Lloyd's Register Verification Limited
A member of the Lloyd's Register group
☒ Witnessed ☐ Monitored ☐ Reviewed
Andrea Gherardini
Venice Office

Andrea Gherardini

TESTING OBJECT:CYLINDER ACCORDING TO DRAWING: **EN-203-372-890 REV.1**OUTSIDE DIAMETER: **203 mm** WATER CAPACITY: **15 l**MIN. WALL THICKNESS: **5.3 mm** NOMINAL LENGTH: **620 mm**FROM CYLINDER SERIAL No. : **18/1432/101 to 18/1432/200****TEST TECHNICAL DATA:**EXAMINATION STANDARD: **EN 1964-1**INSPECTED PART: **CYLINDRICAL WALL**EXTENTION OF EXAMINATION: **100 %**FABRICATION STAGE: **AFTER HEAT TREATMENT (QUENCHING AND TEMPERING), SHOT BLASTING
AND BEFORE PRESSURE TESTING**PROBES: **LONGITUDINAL, TRANSVERSAL AND THICKNESS**COUPLANT: **EMULSIFIED WATER**SCANNING DIRECTION: **CIRCUMFERENTIAL, AXIAL AND RADIAL DIRECTIONS**REFERENCE REFLECTOR: **CALIBRATION CYLINDER ACCORDING TO EN 1964-1****EXAMINATION RESULTS:**

ALL CYLINDERS HAVE BEEN CHECKED GIVING SATISFACTORY RESULTS.



For and on behalf of the manufacturer:

Faber
INDUSTRIE S.p.A.
Cividate del Friuli

For and on behalf of A.I.A.

LOT No. 18/1432 NUMBER OF CYLINDERS: 94 TEST DATE: 09/2018

ACCORDING TO DWG.: EN-203-372-890 REV.1

WORKING PRESSURE AT 15° C: 232 bar HOLDING TIME AT TEST PRESSURE : 30 sec

CYLINDER SIZE : OUTSIDE DIAMETER 203 mm LENGTH 620 mm

REMARKS: M = Mechanical Tests, B = Burst Tests, P = Prototype Tests, S = Cylinder Discarded, C = Cycling Test,

C+B = Cycling + Burst Test, F = Flattening Test.

FITTINGS : "CO" = Collar

CYLINDER SERIAL No.	CUSTOMER NUMBER	HEAT CODE AND NUMBER	TEST PRESSURE (bar)	CYLINDER WATER CAPACITY (l)	FITTINGS	MASS (Kg)	TARE (Kg)	REMARKS
18/1432/101		DTU 579836	372	15.0		17.8		
18/1432/102		DTU 579836	372	15.0		17.8		
18/1432/103		DTU 579836	372	15.0		17.7		
18/1432/104		DTU 579836	372	15.0		17.8		
18/1432/105		DTU 579836	372	15.0		17.8		
18/1432/106		DTU 579836	372	15.0		17.9		
18/1432/107		DTU 579836	372	15.0		17.8		
18/1432/108		DTU 579836	372	15.0		17.8		
18/1432/109		DTU 579836	372	15.0		17.8		
18/1432/110		DTU 579836	372	15.0		17.8		
18/1432/111		DTU 579836	372	15.0		17.8		
18/1432/112		DTU 579836	372	15.0		17.8		
18/1432/113		DTU 579836	372	15.0		17.8		
18/1432/114		DTU 579836	372	15.0		17.7		
18/1432/115		DTU 579836	372	15.0		17.8		
18/1432/116		DTU 579836	372	15.0		17.8		
18/1432/117		DTU 579836	372	15.0		17.7		
18/1432/118		DTU 579836	372	15.0		17.8		
18/1432/119		DTU 579836	372	15.0		17.8		
18/1432/120		DTU 579836	372	15.0		17.8		
18/1432/121		DTU 579836	372	15.0		17.8		
18/1432/122		DTU 579836	372	15.0		17.7		
18/1432/123		DTU 579836	372	15.0		17.7		
18/1432/124		DTU 579836	372	15.0		17.8		
18/1432/125		DTU 579836	372	15.0		17.8		
18/1432/126		DTU 579836	372	15.0		17.7		
18/1432/127		DTU 579836	372	15.0		17.8		
18/1432/129		DTU 579836	372	15.0		17.8		
18/1432/130		DTU 579836	372	15.0		17.8		
18/1432/131		DTU 579836	372	15.0		17.8		
18/1432/132		DTU 579836	372	15.0		17.9		
18/1432/133		DTU 579836	372	15.0		17.8		
18/1432/134		DTU 579836	372	15.0		17.7		
18/1432/135		DTU 579836	372	15.0		17.8		
18/1432/136		DTU 579836	372	15.0		17.8		
18/1432/137		DTU 579836	372	15.0		17.8		
18/1432/138		DTU 579836	372	15.0		17.7		
18/1432/139		DTU 579836	372	15.0		17.8		
18/1432/140		DTU 579836	372	15.0		17.8		
18/1432/141		DTU 579836	372	15.0		17.7		

Manufacturer stamp and signature:

Faber
INDUSTRIE S.p.A.
Cividale del Friuli

A.I.A. stamp and signature:

Lloyd's Register Verification Limited
A member of the Lloyd's Register group

☒ Witnessed ☒ Monitored ☒ Reviewed

Andrea Ghersi
Venice Office

Andrea Ghersi

140141

LOT No. 18/1432 NUMBER OF CYLINDERS: 94 TEST DATE: 09/2018

ACCORDING TO DWG.: EN-203-372-890 REV.1

WORKING PRESSURE AT 15° C: 232 bar HOLDING TIME AT TEST PRESSURE : 30 sec

CYLINDER SIZE : OUTSIDE DIAMETER 203 mm LENGTH 620 mm

REMARKS: M = Mechanical Tests, B = Burst Tests, P = Prototype Tests, S = Cylinder Discarded, C = Cycling Test,
C+B = Cycling + Burst Test, F = Flattening Test.

FITTINGS : "CO" = Collar

CYLINDER SERIAL No.	CUSTOMER NUMBER	HEAT CODE AND NUMBER	TEST PRESSURE (bar)	CYLINDER WATER CAPACITY (l)	FITTINGS	MASS (Kg)	TARE (Kg)	REMARKS
18/1432/142		DTU 579836	372	15.0		17.7		
18/1432/143		DTU 579836	372	15.0		17.8		
18/1432/144		DTU 579836	372	15.0		17.8		
18/1432/145		DTU 579836	372	15.0		17.8		
18/1432/146		DTU 579836	372	15.0		17.7		
18/1432/147		DTU 579836	372	15.0		17.8		
18/1432/148		DTU 579836	372	15.0		17.8		
18/1432/149		DTU 579836	372	15.0		17.8		
18/1432/150		DTU 579836	372	15.0		17.8		
18/1432/151		DTU 579836	372	15.0		17.8		
18/1432/152		DTU 579836	372	15.0		17.8		
18/1432/154		DTU 579836	372	15.0		17.8		
18/1432/155		DTU 579836	372	15.0		17.8		
18/1432/156		DTU 579836	372	15.0		17.7		
18/1432/157		DTU 579836	372	15.0		17.8		
18/1432/158		DTU 579836	372	15.0		17.8		
18/1432/159		DTU 579836	372	15.0		17.8		
18/1432/160		DTU 579836	372	15.0		17.8		
18/1432/161		DTU 579836	372	15.0		17.8		
18/1432/162		DTU 579836	372	15.0		17.8		
18/1432/163		DTU 579836	372	15.0		17.7		
18/1432/164		DTU 579836	372	15.0		17.8		
18/1432/165		DTU 579836	372	15.0		17.8		
18/1432/166		DTU 579836	372	15.0		17.8		
18/1432/167		DTU 579836	372	15.0		17.8		
18/1432/168		DTU 579836	372	15.0		17.7		
18/1432/169		DTU 579836	372	15.0		17.8		
18/1432/170		DTU 579836	372	15.0		17.7		
18/1432/171		DTU 579836	372	15.0		17.9		
18/1432/172		DTU 579836	372	15.0		17.7		
18/1432/173		DTU 579836	372	15.0		17.7		
18/1432/174		DTU 579836	372	15.0		17.8		
18/1432/175		DTU 579836	372	15.0		17.7		
18/1432/176		DTU 579836	372	15.0		17.6		
18/1432/177		DTU 579836	372	15.0		17.6		
18/1432/178		DTU 579836	372	15.0		17.6		
18/1432/179		DTU 579836	372	15.0		17.7		
18/1432/180		DTU 579836	372	15.0		17.6		
18/1432/181		DTU 579836	372	15.0		17.7		
18/1432/182		DTU 579836	372	15.0		17.8		

Manufacturer stamp and signature:

Faber
INDUSTRIE S.p.A.
Civiglio del Friuli

A.I.A. stamp and signature:

Lloyd's Register Verification Limited
A member of the Lloyd's Register group
☒ Witnessed ☐ Monitored ☒ Reviewed
Andrea Ghersi
Venice Office

140141

LOT No. **18/1432** NUMBER OF CYLINDERS: **94** TEST DATE: **09/2018**

ACCORDING TO DWG.: **EN-203-372-890 REV.1**

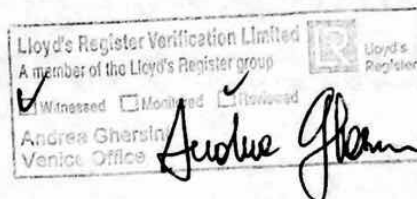
WORKING PRESSURE AT 15° C: **232 bar** HOLDING TIME AT TEST PRESSURE : **30 sec**

CYLINDER SIZE : OUTSIDE DIAMETER **203 mm** LENGTH **620 mm**

REMARKS: M = Mechanical Tests, B = Burst Tests, P = Prototype Tests, S = Cylinder Discarded, C = Cycling Test,
C+B = Cycling + Burst Test, F = Flattening Test.

FITTINGS : "CO" = Collar

CYLINDER SERIAL No.	CUSTOMER NUMBER	HEAT CODE AND NUMBER	TEST PRESSURE (bar)	CYLINDER WATER CAPACITY (l)	FITTINGS	MASS (Kg)	TARE (Kg)	REMARKS
18/1432/183		DTU 579836	372	15.0		17.6		
18/1432/184		DTU 579836	372	15.0		17.7		
18/1432/185		DTU 579836	372	15.0		17.7		
18/1432/186		DTU 579836	372	15.0		17.6		
18/1432/187		DTU 579836	372	15.0		17.7		
18/1432/188		DTU 579836	372	15.0		17.8		
18/1432/189		DTU 579836	372	15.0		17.8		
18/1432/190		DTU 579836	372	15.0		17.7		
18/1432/191		DTU 579836	372	15.0		17.8		
18/1432/193		DTU 579836	372	15.0		17.8		
18/1432/195		DTU 579836	372	15.0		17.8		
18/1432/196		DTU 579836	372	15.0		17.8		
18/1432/197		DTU 579836	372	15.0		17.8		
18/1432/198		DTU 579836	372	15.0		17.9		



Manufacturer stamp and signature:

Faber
INDUSTRIE S.p.A.
Civitate del Friuli

A.I.A. stamp and signature:

Istruzioni operative per il montaggio, la messa in servizio, l'impiego, la manutenzione e le visite periodiche delle bombole in acciaio per autorespiratori subacquei (PED 2014/68/EU).

-La bombola per l'apparecchio respiratore è soggetta ai regolamenti e alle norme per l'uso, manutenzione e le ispezioni periodiche, vigenti nel paese in cui viene utilizzata. E' responsabilità del proprietario della bombola eseguire le visite periodiche siano entro i termini prefissati. Si raccomanda di sottoporre la bombola ad un controllo visivo interno ed esterno da personale competente almeno una volta l'anno.

-L'insieme (costituito da varie attrezzature a pressione montate per costruire un tutto integro e funzionale "apparecchio respiratore") deve soddisfare i requisiti essenziali di sicurezza di cui all'allegato I della direttiva PED 2014/68/EU.

-L'insieme deve essere sottoposto ad una procedura globale di valutazione di conformità così come previsto dalla direttiva PED 2014/68/EU.

-E' di importanza vitale avere sempre estrema attenzione alla cura e alla manutenzione della bombola per respiratori subacquei. E' essenziale che il respiratore subacqueo sia accuratamente esaminato per verificare l'eventuale presenza di danneggiamenti o difetti dopo ogni utilizzo. Tutti i difetti devono essere eliminati prima che il respiratore subacqueo venga di nuovo utilizzato. La mancanza di cura durante la manipolazione, con attrezzatura impropria, può non solo innescare difetti pericolosi, ma rendere le successive manutenzioni costose o addirittura impossibili.

- Le bombole devono essere manipolate con cura non devono essere fatte cadere. Quando trasportate devono essere bloccate in maniera sicura in modo tale che non si muovano durante il trasporto.

-Le condizioni della superficie interna delle bombole possono essere mantenute integre solo se la superficie interna rimane sempre asciutta. La bombola deve essere caricata con aria secca (contenuto d'acqua < 50 mg/m³ per una pressione di carica di 200 bar e contenuto d'acqua < 35mg/m³ per una pressione di carica maggiore di 200 bar, secondo EN12021) e non deve mai essere completamente scaricata in quanto dell'acqua potrebbe essere risucchiata all'interno della bombola contaminandola.

Le bombole devono essere immagazzinate, preferibilmente in posizione verticale, in un posto fresco, secco e lontano da fonti di calore.

-Dopo l'uso, soprattutto in acqua di mare, dalla bombola devono essere tolti le cinghie e il fondello e accuratamente lavata con acqua dolce al fine di rimuovere le tracce di acqua salata e lo sporco, specialmente dalle cavità e poi asciugata. Prima dell'immagazzinamento, o quando la bombola è stata completamente scaricata e l'acqua di mare può essere

Operating instructions for the mounting, putting into service, use, maintenance and periodic inspection of Faber Steel Cylinders for Scuba Diving (PED 2014/68/EU).

-The cylinder for breathing apparatus is subjected to the national regulations and standards for the use, maintenance and periodic inspection, in force in the country of use. The owner of pressure equipment is responsible that periodical inspections are carried out as required by the national regulation and standards. It is recommended that the cylinder will be inspected visually (internally and externally) by a competent person at least annually.

-The assembly (that means several pieces of pressure equipment assembled to constitute an integrated and functional whole "breathing apparatus") must satisfy the essential safety requirements set out in Annex I of the directive PED PED 2014/68/EU.

-The assembly shall be subjected to a global conformity assessment procedure described in the directive PED 2014/68/EU.

-Strict attention to care and maintenance of all types of breathing apparatus used underwater is of vital importance at all times.

It is essential that the complete equipment be thoroughly examined for damage or defect before and after every occasion on which it is used. All defects should be rectified before the equipment is used again. Careless manipulation with inappropriate tools may not only give rise to dangerous defects, but render further maintenance expensive or impossible.

- Cylinders should be handled with care and should not be dropped. When being transported they should be firmly secured so that they cannot move about.

- The condition of the inside of the cylinder can be maintained by keeping it dry at all times. The cylinder should be filled with dry air (Water content <50 mg/m³ for a charging pressure of 200 bar and water content < 35mg/m³ for a charging pressure greater than 200 bar, as for EN12021), and never completely discharged as this can lead to water getting back into the cylinder and causing contamination.

Cylinders should be stored, preferably in the vertical position, in a cool, dry place and away from excessive heat.

-After use, particularly in seawater, the outside surface of the cylinder should be removed from its harness and boot and then washed in clean, fresh water to remove all traces of salt water and dirt, especially from any crevices and then dried.

Before storage, or when the cylinder has been completely discharged and seawater may have entered the cylinder,

Istruzioni operative per il montaggio, la messa in servizio, l'impiego, la manutenzione e le visite periodiche delle bombole in acciaio per autorespiratori subacquei (PED 2014/68/EU).

-La bombola per l'apparecchio respiratore è soggetta ai regolamenti e alle norme per l'uso, manutenzione e le ispezioni periodiche, vigenti nel paese in cui viene utilizzata. E' responsabilità del proprietario della bombola eseguire le visite periodiche siano entro i termini prefissati. Si raccomanda di sottoporre la bombola ad un controllo visivo interno ed esterno da personale competente almeno una volta l'anno.

-L'insieme (costituito da varie attrezzature a pressione montate per costruire un tutto integro e funzionale "apparecchio respiratore") deve soddisfare i requisiti essenziali di sicurezza di cui all'allegato I della direttiva PED 2014/68/EU.

-L'insieme deve essere sottoposto ad una procedura globale di valutazione di conformità così come previsto dalla direttiva PED 2014/68/EU.

-E' di importanza vitale avere sempre estrema attenzione alla cura e alla manutenzione della bombola per respiratori subacquei. E' essenziale che il respiratore subacqueo sia accuratamente esaminato per verificare l'eventuale presenza di danneggiamenti o difetti dopo ogni utilizzo. Tutti i difetti devono essere eliminati prima che il respiratore subacqueo venga di nuovo utilizzato. La mancanza di cura durante la manipolazione, con attrezzatura impropria, può non solo innescare difetti pericolosi, ma rendere le successive manutenzioni costose o addirittura impossibili.

- Le bombole devono essere manipolate con cura non devono essere fatte cadere. Quando trasportate devono essere bloccate in maniera sicura in modo tale che non si muovano durante il trasporto.

-Le condizioni della superficie interna delle bombole possono essere mantenute integre solo se la superficie interna rimane sempre asciutta. La bombola deve essere caricata con aria secca (contenuto d'acqua < 50 mg/m³ per una pressione di carica di 200 bar e contenuto d'acqua < 35mg/m³ per una pressione di carica maggiore di 200 bar, secondo EN12021) e non deve mai essere completamente scaricata in quanto dell'acqua potrebbe essere risucchiata all'interno della bombola contaminandola.

Le bombole devono essere immagazzinate, preferibilmente in posizione verticale, in un posto fresco, secco e lontano da fonti di calore.

-Dopo l'uso, soprattutto in acqua di mare, dalla bombola devono essere tolti le cinghie e il fondello e accuratamente lavata con acqua dolce al fine di rimuovere le tracce di acqua salata e lo sporco, specialmente dalle cavità e poi asciugata. Prima dell'immagazzinamento, o quando la bombola è stata completamente scaricata e l'acqua di mare può essere

Operating instructions for the mounting, putting into service, use, maintenance and periodic inspection of Faber Steel Cylinders for Scuba Diving (PED 2014/68/EU).

-The cylinder for breathing apparatus is subjected to the national regulations and standards for the use, maintenance and periodic inspection, in force in the country of use. The owner of pressure equipment is responsible that periodical inspections are carried out as required by the national regulation and standards. It is recommended that the cylinder will be inspected visually (internally and externally) by a competent person at least annually.

-The assembly (that means several pieces of pressure equipment assembled to constitute an integrated and functional whole "breathing apparatus") must satisfy the essential safety requirements set out in Annex I of the directive PED PED 2014/68/EU.

-The assembly shall be subjected to a global conformity assessment procedure described in the directive PED 2014/68/EU.

-Strict attention to care and maintenance of all types of breathing apparatus used underwater is of vital importance at all times.

It is essential that the complete equipment be thoroughly examined for damage or defect before and after every occasion on which it is used. All defects should be rectified before the equipment is used again. Careless manipulation with inappropriate tools may not only give rise to dangerous defects, but render further maintenance expensive or impossible.

- Cylinders should be handled with care and should not be dropped. When being transported they should be firmly secured so that they cannot move about.

- The condition of the inside of the cylinder can be maintained by keeping it dry at all times. The cylinder should be filled with dry air (Water content < 50 mg/m³ for a charging pressure of 200 bar and water content < 35mg/m³ for a charging pressure greater than 200 bar, as for EN12021), and never completely discharged as this can lead to water getting back into the cylinder and causing contamination.

Cylinders should be stored, preferably in the vertical position, in a cool, dry place and away from excessive heat.

-After use, particularly in seawater, the outside surface of the cylinder should be removed from its harness and boot and then washed in clean, fresh water to remove all traces of salt water and dirt, especially from any crevices and then dried.

Before storage, or when the cylinder has been completely discharged and seawater may have entered the cylinder,